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MAN-MADE CULTURE INTERPRETATION AND CULTURE REVISION OF SMALL-SCALE MAPS

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Type I Progress Report
ERTS-A

- a. Title: Man-Made Culture Interpretation and Culture Revision
of Small-Scale Maps

ERTS-1 Proposal No. SR 237

- b. GSFC ID No. of P.I. IN 419

- c. Problems: None

- d. Accomplishments:

Operations are in progress to revise the Wilmington, Delaware, 1:250,000-scale quadrangle. MSS scenes 1133-15135 and 1133-15141 in bands 5 and 7 have been enlarged to fit the base map. A compiler has been asked to delineate (1) major drainage systems (including lakes, ponds, and shorelines); (2) major transportation systems (including highways, railroads, airports, and pipelines) and (3) the limits of urban growth. This exercise in new compilation, done without the aid of the base map on a blank overlay, will give an indication of the image detection characteristics of ERTS data for map feature portrayal.

In addition, the outdated map base is being oriented over the ERTS imagery. Additions and deletions to the major map features are being compiled monoscopically.

The subject quadrangle has been previously revised in the USGS by other methods. This revised base will be used as "control" for analyzing revision by ERTS.

e. Significant scientific results:

A major interstate highway added to the Wilmington, Del., quadrangle by another revision method was determined by the ERTS data to have been misplotted from its true position.

In addition to the experiment, where ERTS data is available and small-scale revision is in progress, the ERTS data is routinely being used to make additions and deletions of hydrographic features.

- f. Published articles and reports: N/A
- g. Recommended changes in operations: N/A
- h. Changes in Standing Order forms: N/A
- i. ERTS Image Descriptor forms: N/A
- j. Changes in Data Request forms: N/A